

# ALAN HAIMINH VO

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## EDUCATION

<b>University of California, Berkeley</b> B.S. Cognitive Science (Specializing in Data Science) <ul style="list-style-type: none"><li>- <b>Concentration:</b> Computer Science and ML Models</li><li>- <b>Related Coursework:</b> Data Structures/Algorithms, Fundamental Programming, Concepts with Computing in Data, Probability for Statistics, Discrete Mathematics, Computational Modeling in Cognition, Foundation of Data Science</li></ul>	<b>Berkeley, CA</b> Graduated Spring 2025
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## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, HTML/CSS, JavaScript  
**Frameworks & Libraries:** Flask, SQLAlchemy, Flask-Login, Jinja2, Tailwind CSS, Pandas, Matplotlib  
**Tools:** Git, GitHub, VS Code, SQLite, Jupyter Notebook, Google Workspace  
**Concepts:** RESTful API Design, CRUD Operations, Relational Database Design, Authentication & Authorization

## WORK EXPERIENCE

<b>Chegg Associate Product Manager</b>   <i>Intern</i> <ul style="list-style-type: none"><li>❖ Led cross-functional collaboration to prioritize product features using SQL analysis of user retention and behavior data.</li><li>❖ Integrated machine learning models to personalize content recommendations, increasing time-on-task and engagement.</li><li>❖ Defined roadmap objectives aligned with student learning outcomes, contributing to scalable education-first feature design.</li><li>❖ Synthesized user feedback into actionable insights, improving UX across mobile and web learning tools.</li></ul>	<b>Summer 2024</b>
<b>IBM Software Engineering Intern</b>   <i>Tech Scholars Internship</i> <ul style="list-style-type: none"><li>❖ Collaborated in a 5-person team to build a smart thermostat system that adapted to user preferences based on behavioral and environmental data.</li><li>❖ Contributed to backend functionality in Java and integrated RESTful APIs with a JavaScript-based frontend dashboard.</li><li>❖ Containerized the application using Docker for cross-platform deployment and streamlined CI/CD compatibility.</li><li>❖ Participated in code reviews, debugging, and Agile sprints to ensure full-stack integration and system reliability.</li></ul>	<b>Summer 2021</b>

## PROJECTS

<b>TrackSwipe - Music Discovery App</b> - <i>Ongoing Personal Full-Stack Project</i>   <i>React, Tailwind CSS, Next.js, JavaScript, HTML/CSS</i> <ul style="list-style-type: none"><li>❖ Building a Tinder-style music swiping interface that allows users to discover and save songs by mood and genre</li><li>❖ Designed an interactive UI that supports swiping left to add to playlist, swiping right to skip, and long-press to block artists.</li><li>❖ Created features for playlist management, artist filtering, and emotion-based music tagging.</li><li>❖ Currently integrating backend (Flask) for user authentication, playlist storage, and ML-powered recommendations.</li></ul>	
<b>Flask Task Manager</b> - <i>Personal Full-Stack Project</i>   <i>Python, Flask, SQLAlchemy, SQLite, Flask-Login</i> <ul style="list-style-type: none"><li>❖ Developed a full-stack task management web application with user authentication, task creation, and persistent storage using Flask and SQLAlchemy.</li><li>❖ Designed backend logic for CRUD operations, form validation, and secure session handling with Flask-Login.</li><li>❖ Built RESTful routes and a relational schema supporting filters by completion status, priority, and due date/time.</li><li>❖ Stored task data using SQLite and managed user-specific access and filtering through database queries.</li></ul>	
<b>California Crash Data Dashboard</b> - <i>Data Analysis Project</i>   <i>R, Pandas, Plotly</i> <ul style="list-style-type: none"><li>❖ Built an interactive dashboard with dynamic filters, aiding public agencies in data-informed safety interventions.</li><li>❖ Demonstrated ability to clean, structure, and interpret large, complex datasets for non-technical users.</li><li>❖ Analyzed 10 years of collision data (2014–2023) to identify risk trends by time, location, and severity.</li></ul>	
<b>Smart Thermostat Energy App</b> - <i>IBM Team Project</i>   <i>HTML/CSS/JS, Python, IBM Weather API</i> <ul style="list-style-type: none"><li>❖ Engineered a full-stack mobile app to register users/devices and track energy usage in real time.</li><li>❖ Implemented a temperature-driven control algorithm with push notification triggers for HVAC optimization.</li><li>❖ Integrated external APIs (IBM Weather, Somfy) to retrieve and process real-time environmental and sensor data.</li><li>❖ Developed responsive UI components and backend logic for user authentication, data visualization, and energy insights.</li></ul>	

## LEADERSHIP EXPERIENCE

<b>Theta Delta Chi Fraternity</b> <i>Fraternity Social Chair/Risk Manager</i> <ul style="list-style-type: none"><li>❖ Oversaw planning and execution of 15+ social and philanthropic events, managing a \$12,000+ budget with structured resource tracking.</li><li>❖ Led cross-org collaboration and communication workflows, demonstrating project management and stakeholder alignment.</li><li>❖ Designed and implemented safety protocols for 200+ person events, standardizing processes through structured documentation and reporting.</li><li>❖ Part of the Executive committee to ensure stability within the organization</li></ul>	<b>Berkeley, CA</b> January 2024 - May 2024
<b>Alpha Phi Omega Fraternity</b> <i>Financial Vice President</i> <ul style="list-style-type: none"><li>❖ Managed and optimized a \$7,000+ operational budget, building internal dashboards and tracking systems to support strategic decisions.</li></ul>	<b>Berkeley, CA</b> August 2022 - Fall 2024
<b>UC Berkeley Starting Point Mentorship Program (SPMP)</b> <i>Student Mentor</i> <ul style="list-style-type: none"><li>❖ Mentored 4 community college transfer students, providing 1-on-1 guidance on coursework planning, application strategy, and campus engagement.</li><li>❖ 3 out of 4 mentees were successfully admitted to UC Berkeley, with improved clarity and confidence in their academic pathways.</li><li>❖ Supported mentees in building competitive profiles by sharing personal experience, resources, and timelines for transfer success.</li></ul>	<b>Berkeley, CA</b> August 2023 - May 2024